SEQUENCE LISTING

<110> Hillman, Jeffrey D.

<120> Microbial Polynucleotides Expressed During Infection of
      a Host

<130> MBHB00-505I

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<150> 60/147,551
<151> 1999-08-06

<150> US00/21340
<151> 2000-08-04

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<170> PatentIn Ver. 2.1

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ccagtttcac ccgttgcgct tccccgccgg acagggtggt agaggattgc cccaagcgaa 180
tataagacaa gcccacgtca atcagggttt gcaatttacg cgcaatcatt ggaatggcat 240
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aataaaacgt attctacgtc taagttgtat ttttcttttg ccactttcgc tgcgatttca 180
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gcgcttattt aagctaaaac accatcttgg cattcaggga tttttatccg ggctattcac 180
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agtgccggtg gaggcggnga aaattcactc acttggtgcg gaaggcaatg atgtgggatt 180
gaaagcccat catggcgggt ggataaagcg ttattttta tgtcggcaga tgcctttcct 240
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aattttgtgg tttccgcgct gaatgaagat tccgtgtgtg tgggcgatat ttatcaaatc 360
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ctgaacggtt cgcacagttg gtttgtggcg gacgcatcgg aagatttgac gcaactgcaa 180
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aatattcgca aaaaagattt ggaaacgcca acgccttata acacctatgt gattgacggc 240
ttgccgccga caccgattgc gatgccgagt gaagaggcgt tacaggcggt ggcacatccg 300
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ggaaaataat atggtaggca aatttattgt cattgaaggc ttggaaggcg caggcaaaag 480
caccgctcat caatgcgttg tggatacgtt aaaaacgtta ggtgttgggg aagtcatctc 540
tacccgcgag ccgggcggca caccgttgg cggaaaagct acgccatctc attaaacatg 600
aaaaccaana gccngtgacc cgataaagcg gaattactca tgctgtatgc ngccgcctgc 660
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8

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ctgcggagta gattgtgcgc cggtcgcctg tagattgttc gactgggcaa tcggaccgtt 780
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ggttgaaccg tccaccggtt gcatgagtcc cggggataag gtaccgtcgg cgttttccac 900
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aaaagaaaaa tacaacttag acgtagaata cgttttattc atgactacgc cttgccaaac 180
actgcagtgt ctaaaggtga tttagacgtt aacgcaatgc aacataaacc gtatttagac 240
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<213> Actinobacillus actinomycetemcomitans

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gcgcttattt aagctaaaac accatcttgg cattcaggga ttttttatccg ggctattcac 180
ttttgtcctg cgttccggtg ccagattatt gccgacatca ttactgaaaa acatctatca 240
aacctttta agaaaataa        259


<210> 11
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<212> DNA
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gccttcagtt ncttaacctt ggtgaagccg ntgtattccg ttcatttggn aaagcggnga 180
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ccgatgtgcc ttacgaagaa ctgaaaggca ttaaagtgtg ccatttgggc taccgttctt 540
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aaaatgaagc tgcaaaccga tccgaccgtc atttacggca tgggcgacga ctacaacggc 180
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gcgcaaacgg cgtttttatta tttcgtggca gacggcacgg ggggacacaa attcagtcgt 360
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caatgcgttg tggatacgtt aaaaacgtta ggtgttgggg aagtcatctc tacccgcgag 120
ccgggcggca cacccgttgg cggaaaagct acgccatctc at                     162
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<213> Actinobacillus actinomycetemcomitans

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            20                  25                  30

Ala Glu Ile Ala Ala Lys Val Ala Lys Glu Lys Tyr Asn Leu Asp Val
            35                  40                  45

Glu Tyr Val Leu Phe Met Thr Thr Pro Cys Gln Thr Leu Gln Cys Leu
     50                  55                  60

Lys Val Ile
 65
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            20                  25                  30

Leu Asn Gln Ala Lys Ala Glu Trp Arg Leu Phe Lys Leu Lys His His
            35                  40                  45

Leu Gly Ile Gln Gly Phe Leu Ser Gly Leu Phe Thr Phe Val Leu Arg
     50                  55                  60

Ser Gly Ala Arg Leu Leu Pro Thr Ser Leu Leu Lys Asn Ile Tyr Gln
 65                  70                  75                  80
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11

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Thr Phe Leu Arg Lys
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<210> 17
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<212> PRT
<213> Actinobacillus actinomycetemcomitans

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Val Leu Asn Gly Asp Val Leu Gln Leu Asn Gly Ser His Ser Trp Phe
        35                  40                  45

Val Ala Asp Ala Ser Glu Asp Leu Thr Gln Leu Gln Gln Arg Leu Ala
    50                  55                  60

Gln Arg Asp Ile Leu Leu Thr Ala Pro Leu Ile Gly Glu Glu Asp Lys
 65              70                  75                  80

Ser Ala Val Asp Phe Glu Asn Glu Ile Phe Val Ala His Gln Ala Leu
                85                  90                  95

Phe His Leu Met Arg Gln Glu Arg Val Lys Ala Ala Arg Arg Pro Ile
            100                 105                 110

Leu Met Gln Ala Gln Gln Phe Gln Trp Gln Phe Glu Pro Asn Gly Leu
            115                 120                 125

Arg Leu Lys Phe Tyr Leu Pro Ala Gly Ser Tyr Ala Thr Ala Leu Val
    130                 135                 140

Arg Glu Leu Val Asn Val Glu Asn
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Met Asn Ile Leu Leu Ser Asn Asp Asp Gly Ile His Ala Pro Gly Ile
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Arg Val Met Arg Thr Leu Arg Lys Ile Ala Asn Val Thr Ile Val Ala
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Pro Asp Ser Asn Arg Lys Arg Arg Leu Gln Xaa Leu Asn Leu Gly Glu
           35   40   45

Ala Xaa Val Phe Arg Ser Phe Gly Lys Ala Xaa Ile Ile Ala Ser Thr
       50   55   60

Ala Xaa Pro Ala Xaa Cys Val His Ile Ala Leu Thr Gly Phe Leu Ser
 65   70   75   80

Gly Arg Ile Asp Leu Val Ile Ser Gly Ile Asn Ala Gly Ala Asn Leu
               85   90   95

Gly Asp Asp Val Leu Tyr Ser Gly Thr Val Ala Ala Ala Phe Glu Gly
              100   105   110

Arg His Leu Gly Leu Pro Ser Ile Ala Val Ser Leu Asp Gly Arg Gln
          115   120   125

His Phe Glu Thr Ala Ala Arg Val Val Cys Asp Leu Val Pro Lys Leu
    130   135   140

His Ala Gln Leu Leu Gly Lys His Glu Ile Leu Asn Ile Asn Val Pro
145   150   155   160

Asp Val Pro Tyr Glu Glu Leu Lys Gly Ile Lys Val Cys His Leu Gly
              165   170   175

Tyr Arg Ser Ser Ala Ser Glu Val Ile Lys Gln Gln Ser Pro Arg Gly
          180   185   190

Glu Asp Met Tyr Trp Ile
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<210> 19
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<212> PRT
<213> Actinobacillus actinomycetemcomitans

<400> 19
Asp Leu Pro Leu Ala Asn Pro Tyr Glu Met Leu Ile Leu Ala Ser Ile
1   5   10   15

Val Glu Lys Glu Thr Gly Ile Ala Ala Glu Arg Pro Gln Val Ala Ser
                20   25   30

Val Phe Ile Asn Arg Leu Lys Ala Lys Met Lys Leu Gln Thr Asp Pro
                35   40   45

Thr Val Ile Tyr Gly Met Gly Asp Asp Tyr Asn Gly Asn Ile Arg Lys
        50   55   60

Lys Asp Leu Glu Thr Pro Thr Pro Tyr Asn Thr Tyr Val Ile Asp Gly
65   70   75   80

Leu Pro Pro Thr Pro Ile Ala Met Pro Ser Glu Glu Ala Leu Gln Ala
                85   90   95

Val Ala His Pro Ala Gln Thr Ala Phe Tyr Tyr Phe Val Ala Asp Gly
                100   105   110

Thr Gly Gly His Lys Phe Ser Arg Asn Leu Asn Glu His Asn Lys Ala
                115   120   125

Val Gln Gln Tyr Leu Arg Trp Tyr Arg Glu Gln Asn Gly Lys
        130   135   140

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<400> 20
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1   5   10   15

Ser Thr Ala His Gln Cys Val Val Asp Thr Leu Lys Thr Leu Gly Val
                20   25   30

Gly Glu Val Ile Ser Thr Arg Glu Pro Gly Gly Thr Pro Val Gly Gly
        35   40   45

Lys Ala Thr Pro Ser His
        50

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